

## **312 REPLACING SEWER/WATER MANHOLE FRAMES AND BASIN TOPS**

### **312.01 DESCRIPTION**

**(A) REPLACE SEWER AND WATER MANHOLE FRAMES.** Work consists of replacing damaged or deteriorated sewer or water manhole frames and concrete rings.

**(B) REPLACE OLD STYLE (CONICAL SHAPED) WATER VALVE CASTINGS.** Work consists of the replacing of the old style (conical shaped) water valve castings, encountered within the project limits, with standard valve casing elements.

**(C) REPLACE STANDARD BASIN TOPS.** Work consists of furnishing a new Standard Basin Top, when the existing top requires replacement due to damage not caused by the Contractor's negligence.

### **312.02 MATERIALS**

Brick - 806.01(A)

Mortar - 806.05(B)(4) and (5)

PCC - 817, Class B

Reinforcing Steel - 812.02, Grade 60

Manhole Frames and Covers- 815.04

Precast PCC Risers and Cone Tops - 821.04

Rapid Setting Emulsified Asphalt - 802.05

### **312.03 CONSTRUCTION REQUIREMENTS.**

**(A) REPLACE SEWER AND WATER MANHOLE FRAMES.** The method of construction shall be as specified in 311.

All new materials shall be furnished by the Contractor. Work includes replacing the cut out pavement with PCC base in accordance with 505.

**(B) REPLACE OLD STYLE (CONICAL SHAPED) WATER VALVE CASTINGS.** Old style (conical shaped) water valve castings shall be removed and disposed of.

**(C) REPLACE STANDARD BASIN TOPS.** Precast basin tops shall be constructed to the dimensions and details shown in the contract documents.

The method of construction shall be per 311.

### **312.04 MEASURE AND PAYMENT**

**(A) REPLACE SEWER AND WATER MANHOLE FRAMES.** The unit of measure for Replacing Sewer and Water Manhole Frames will be each. Payment for frames furnished and placed will be made at the contract unit price per each, which payment will include all labor, materials, tools, equipment and incidentals needed to complete work specified.

**(B) REPLACE CONICAL SHAPED WATER VALVE CASTINGS.** The unit of measure will be each. Payment for Conical Shaped Water Valve Castings replaced will be made at the contract unit price per each, which payment will include all labor, materials, tools, equipment and incidentals needed to complete work specified. Payment includes replacement of pavement complete.

**(C) REPLACE STANDARD BASIN TOPS OR ELONGATION TOPS.** The unit of measure will be each. Payment for Basin Tops or Elongation Tops furnished and placed will be made at the contract unit price per each, which payment will include all labor, materials, tools, equipment and incidentals needed to complete work specified.